T02050" 8TE8h860

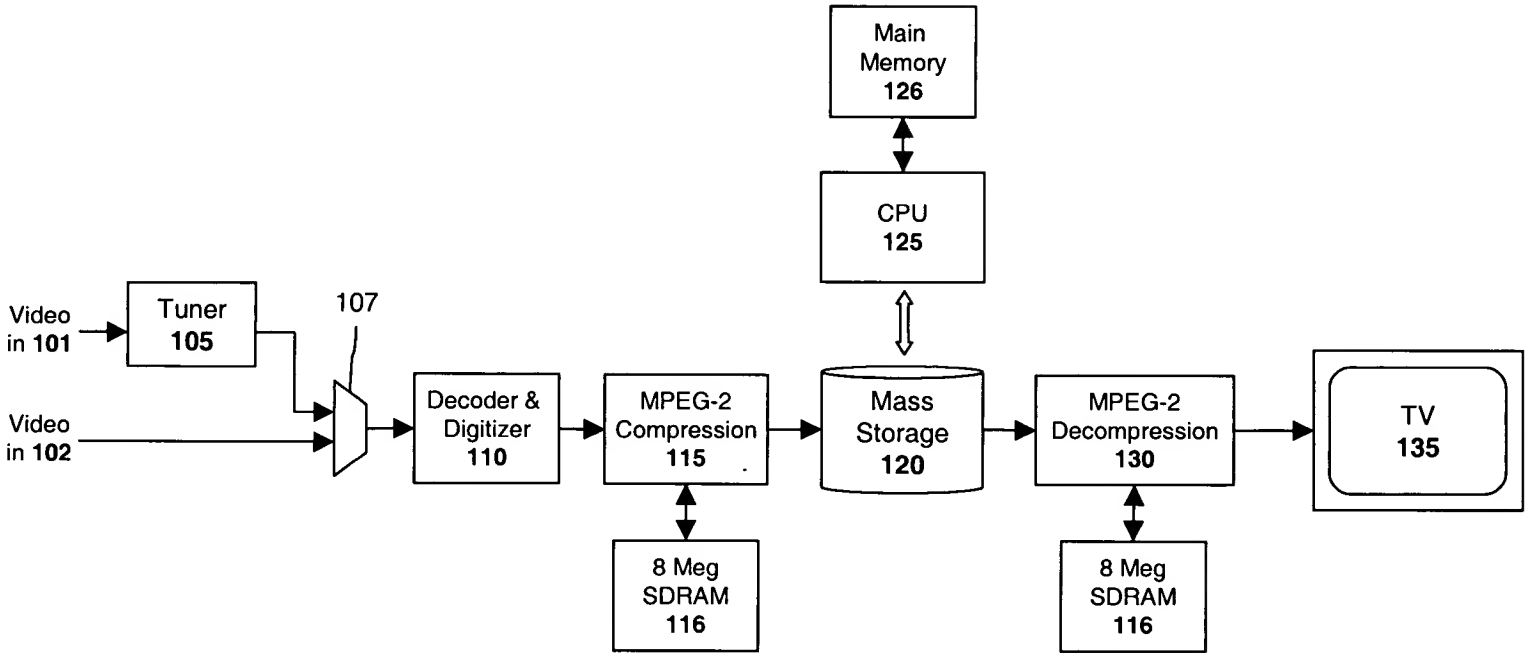

FIG. 1a

(*prior art*)

T02050 "8TT8h860

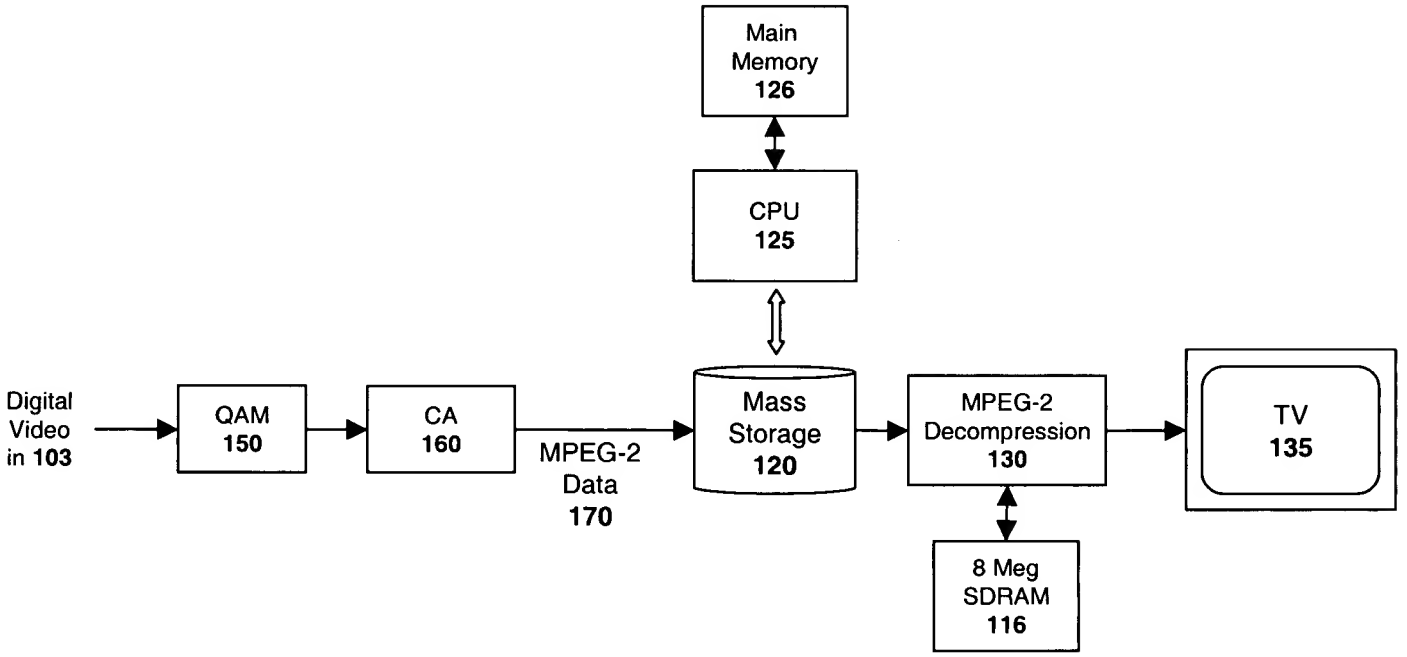

FIG. 1b

(*prior art*)

T02050 "8TE8860

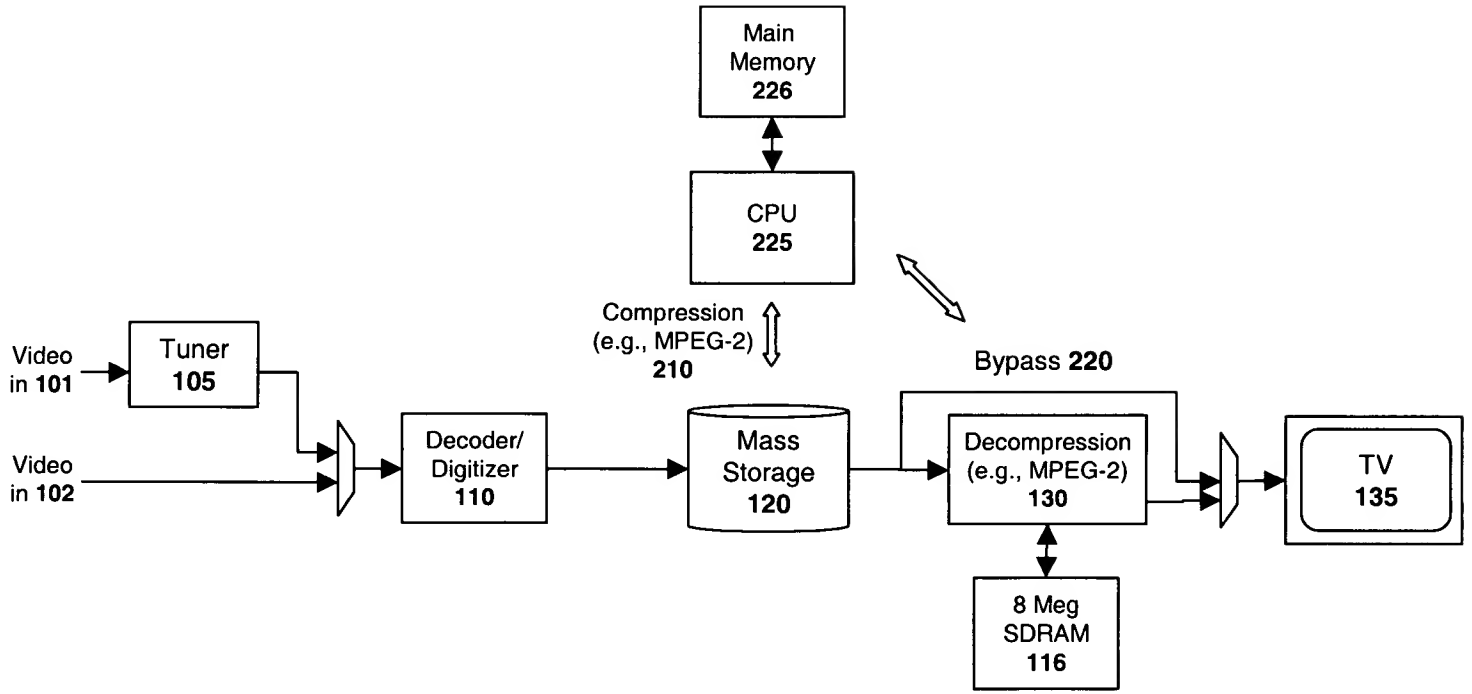

FIG. 2

T02050 "8T78h860

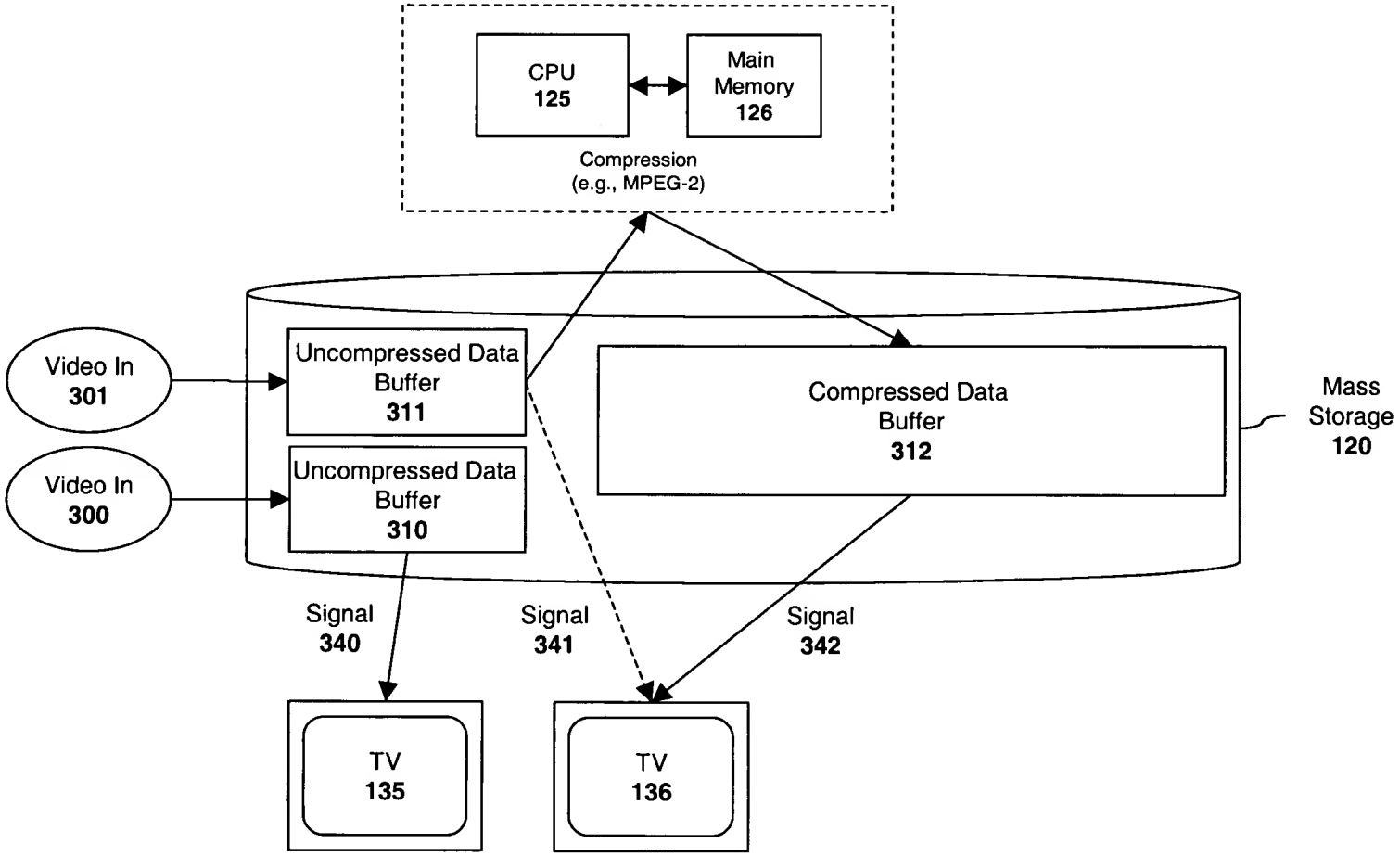

FIG. 3

T02050 "BTF8n860

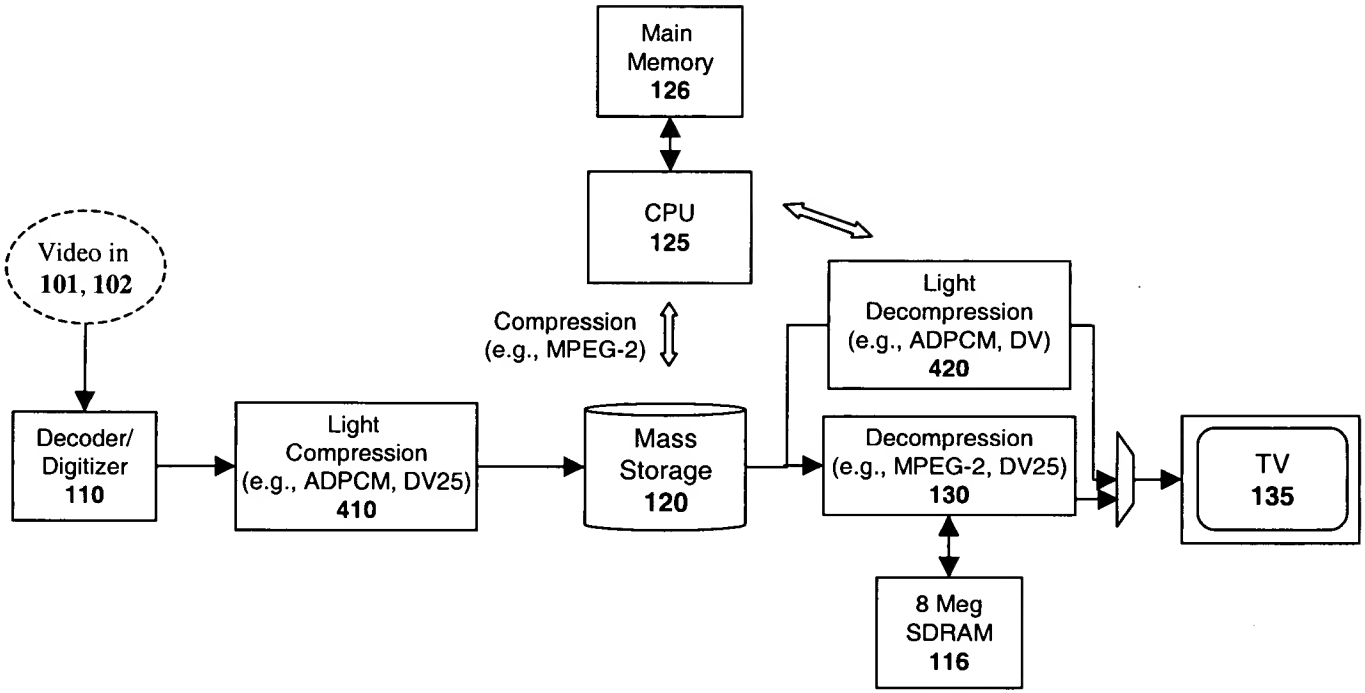

FIG. 4

T02050 "8TE8+860

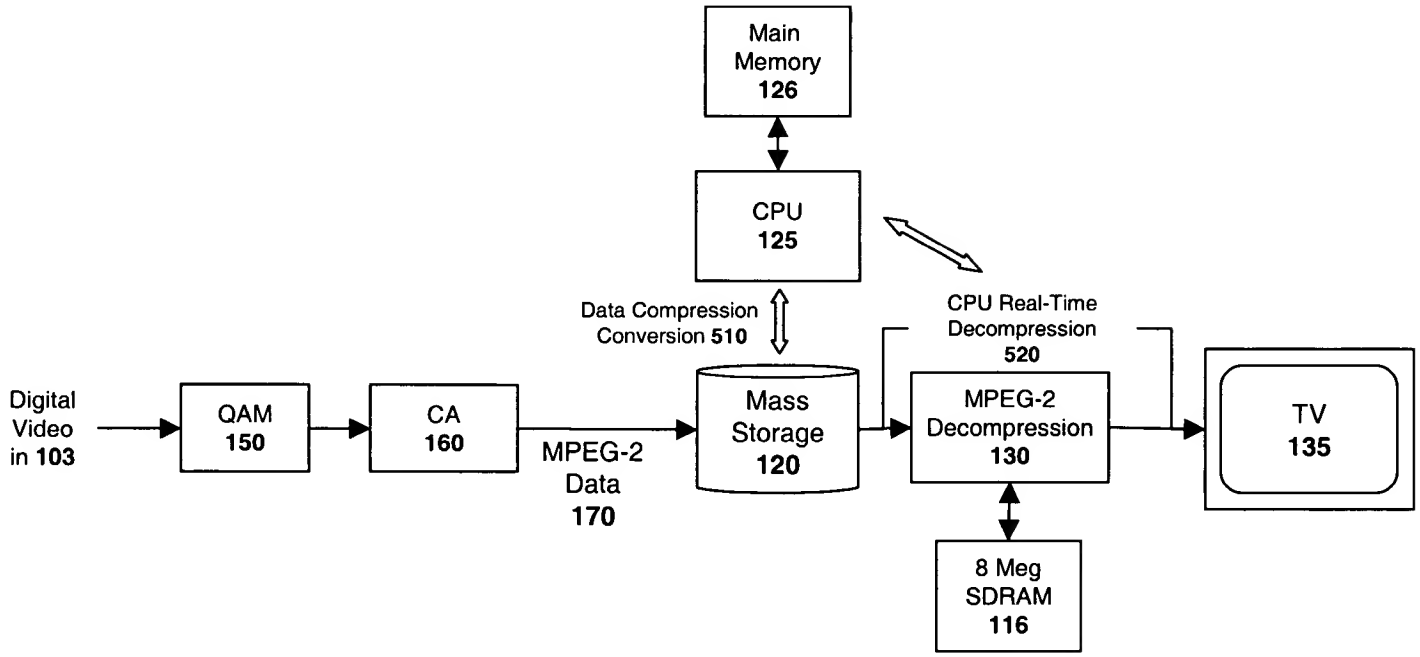

FIG. 5

T02050 "8TF8+860

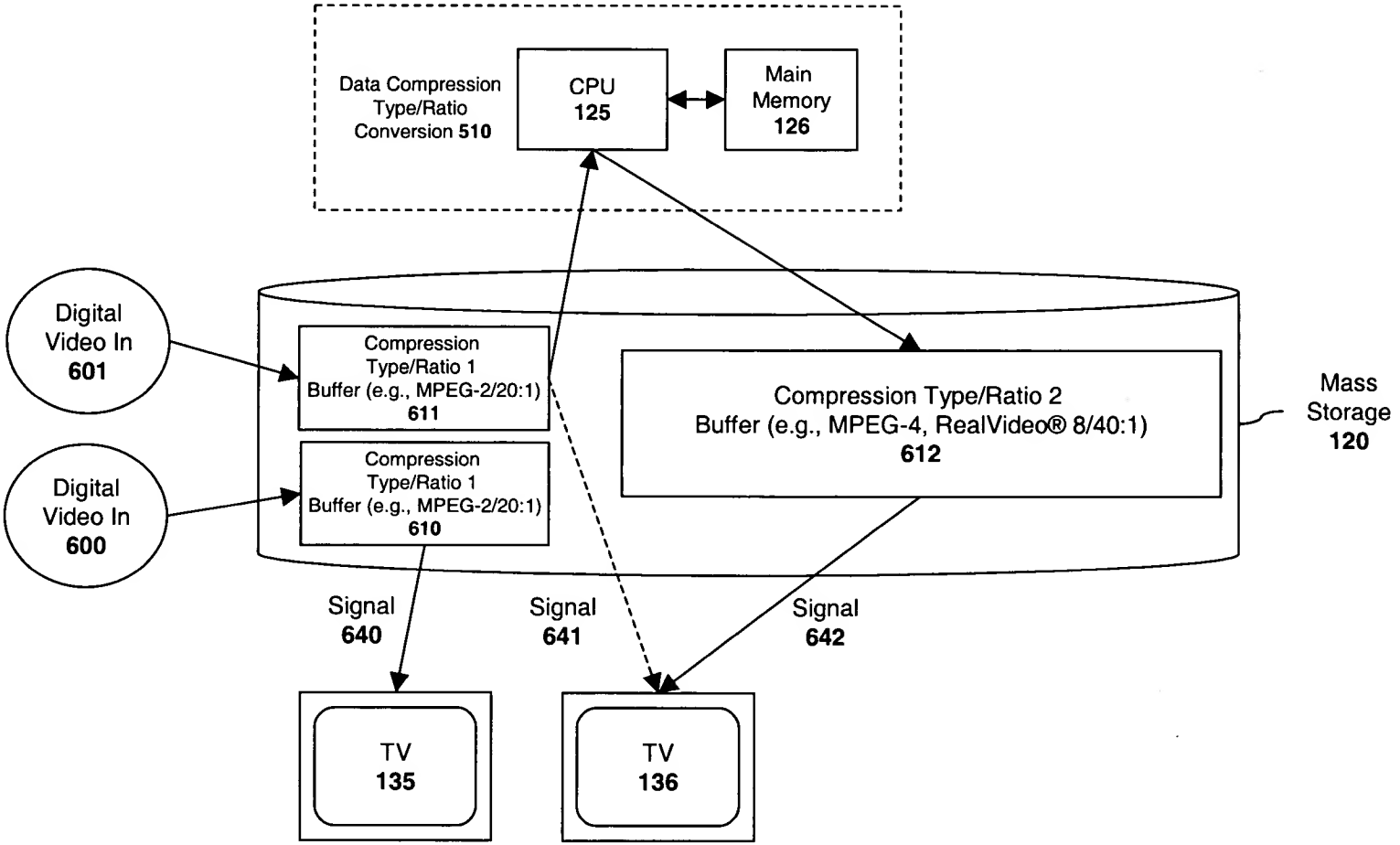

FIG. 6

T02050"8TT8h860

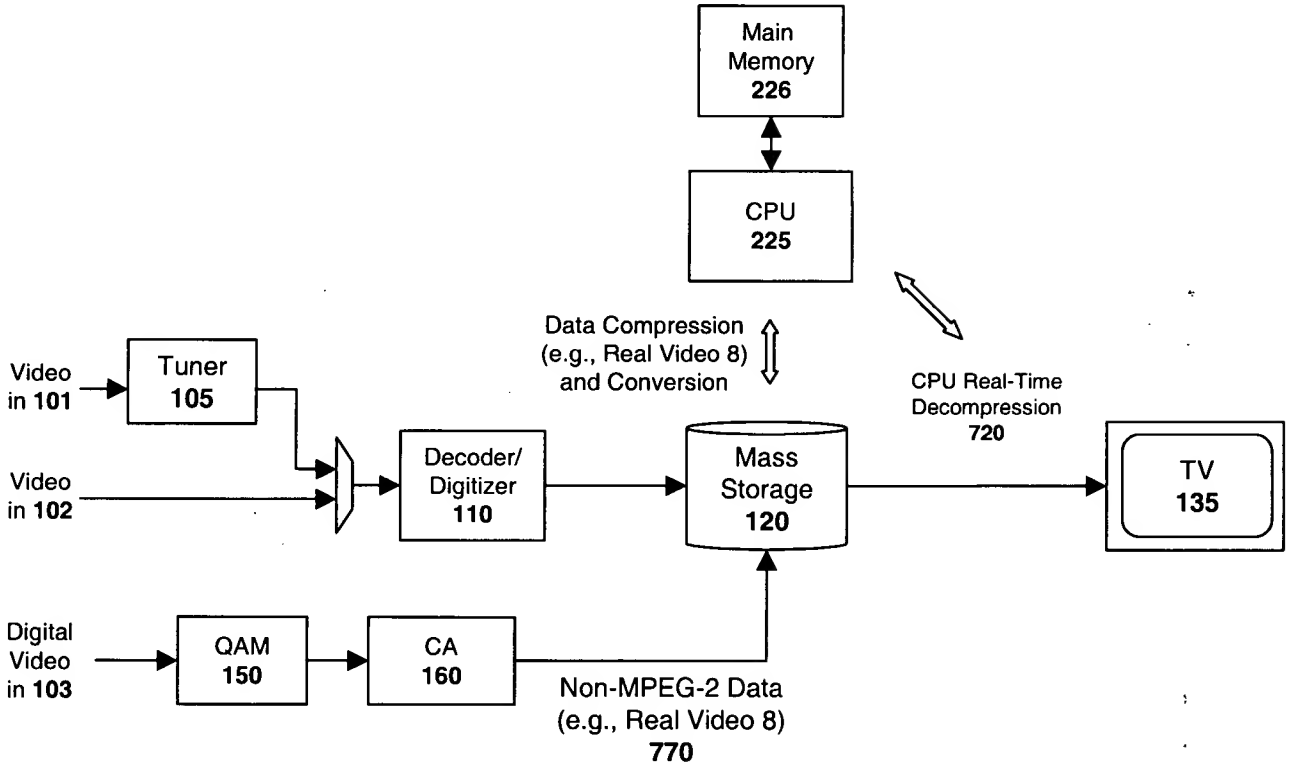

FIG. 7a

T02050" BTT8h860

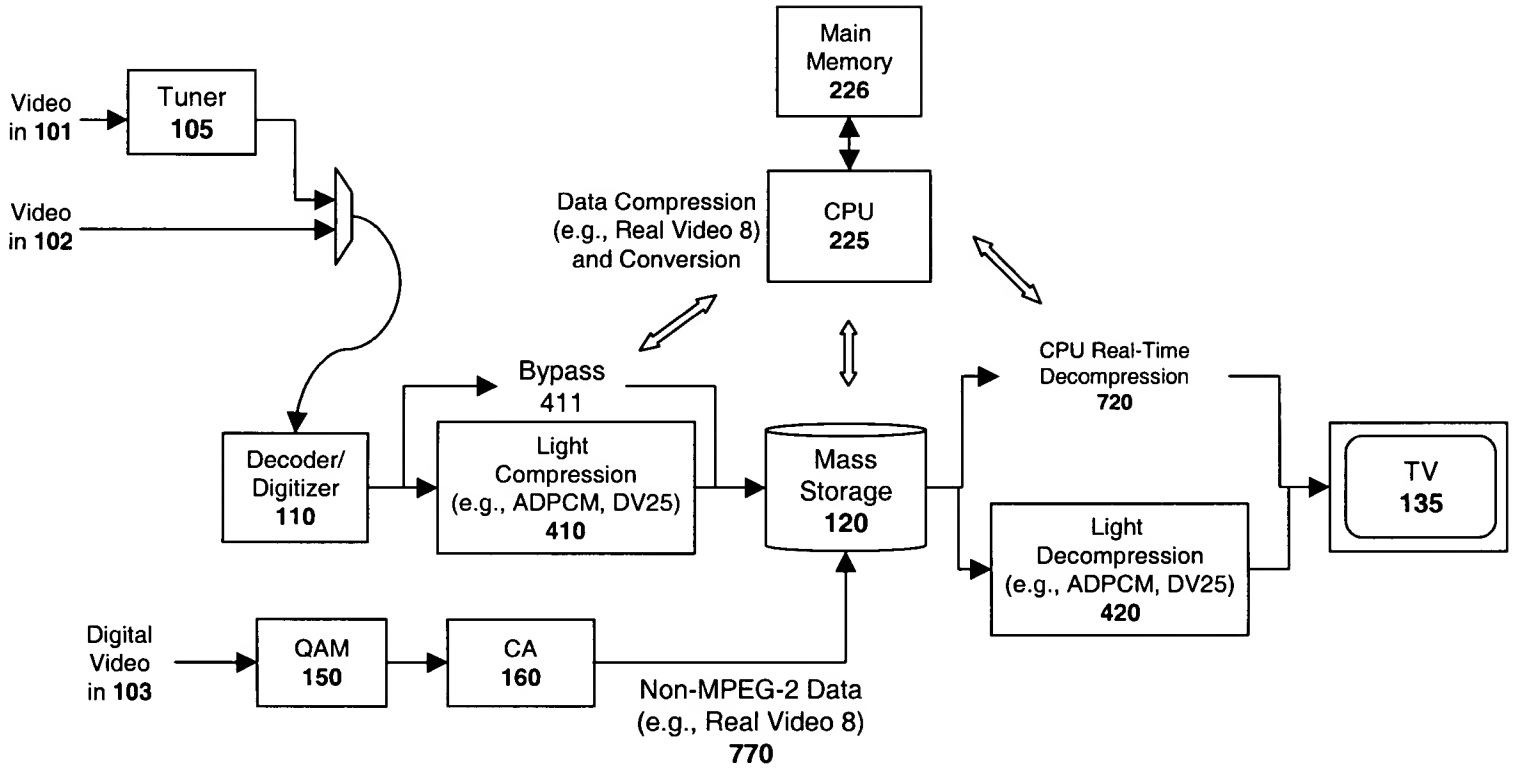

FIG. 7b

T02050"8TT8h860

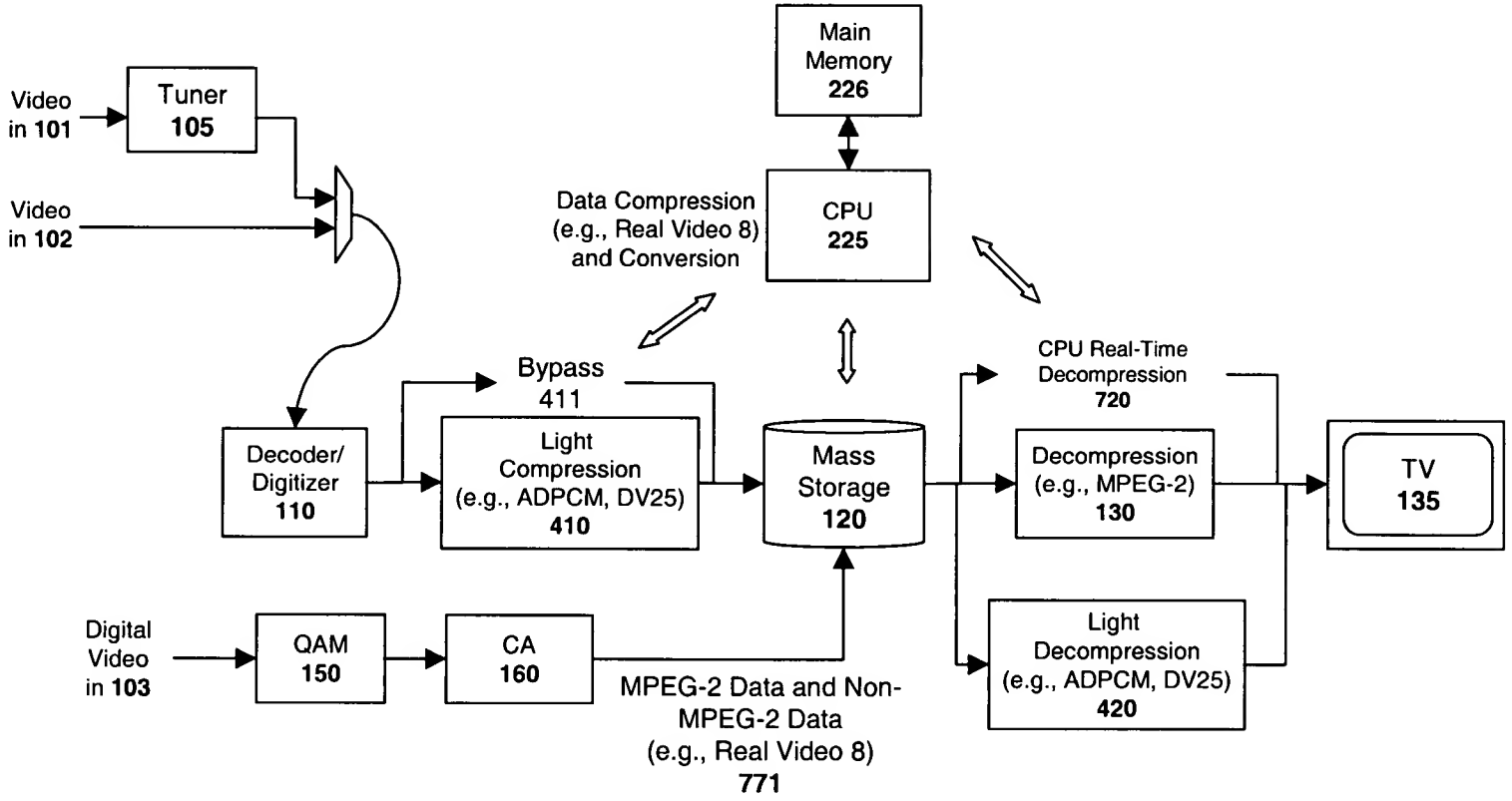

FIG. 7c

T02050" 8TT8n860

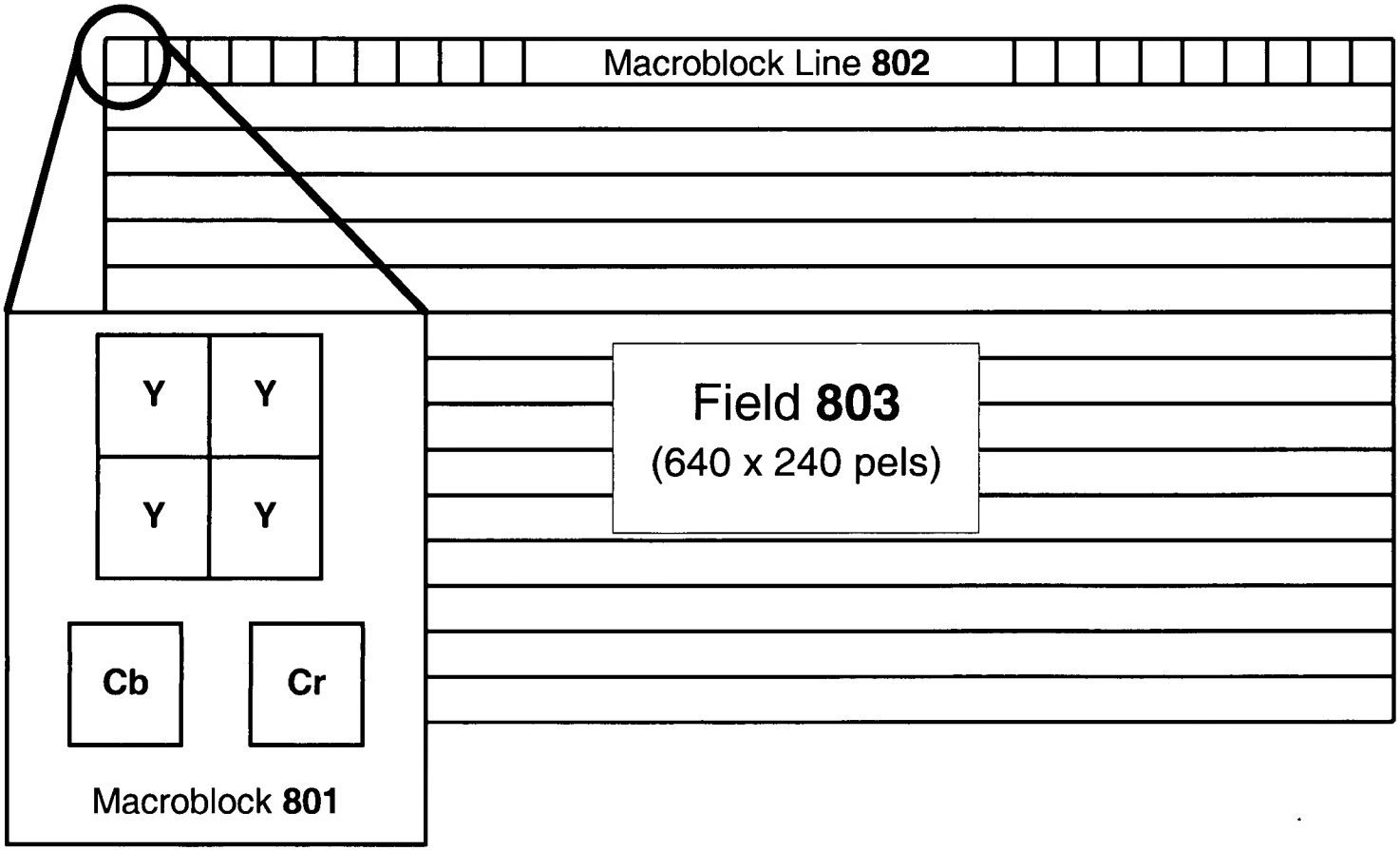

FIG. 8

(*prior art*)

T02050"8TT8th860

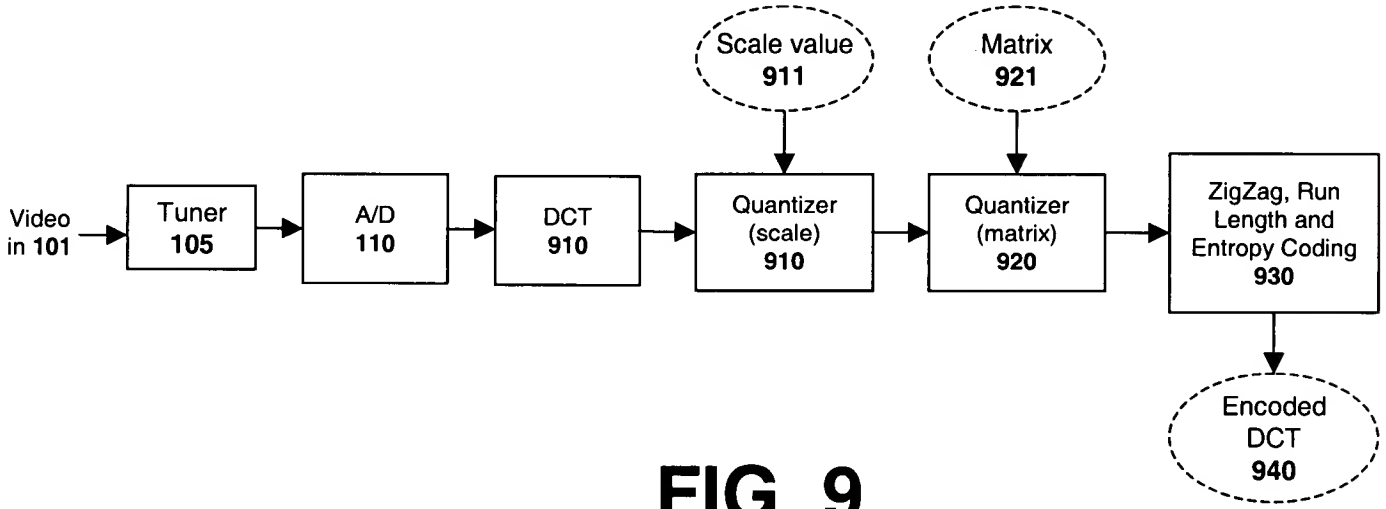

FIG. 9

(*prior art*)

T02050" 8TT8h860

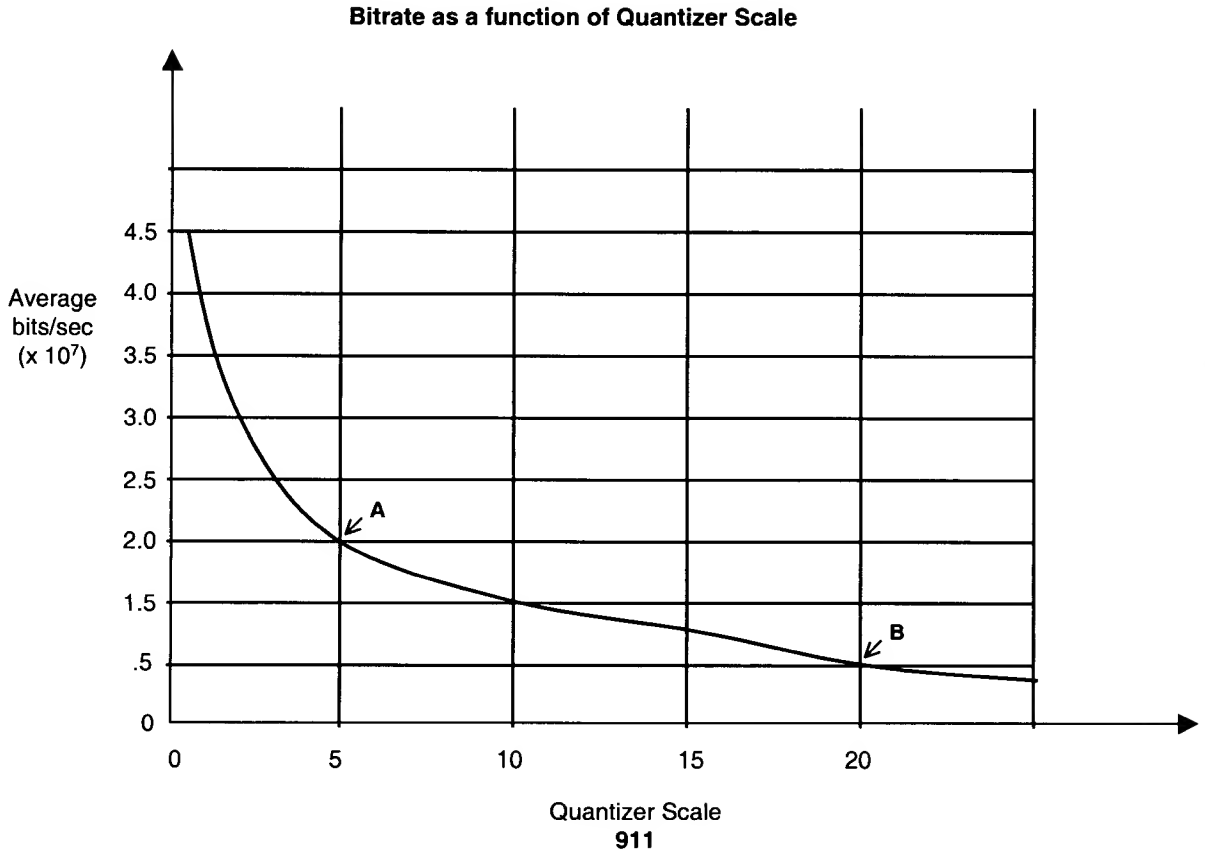

FIG. 10

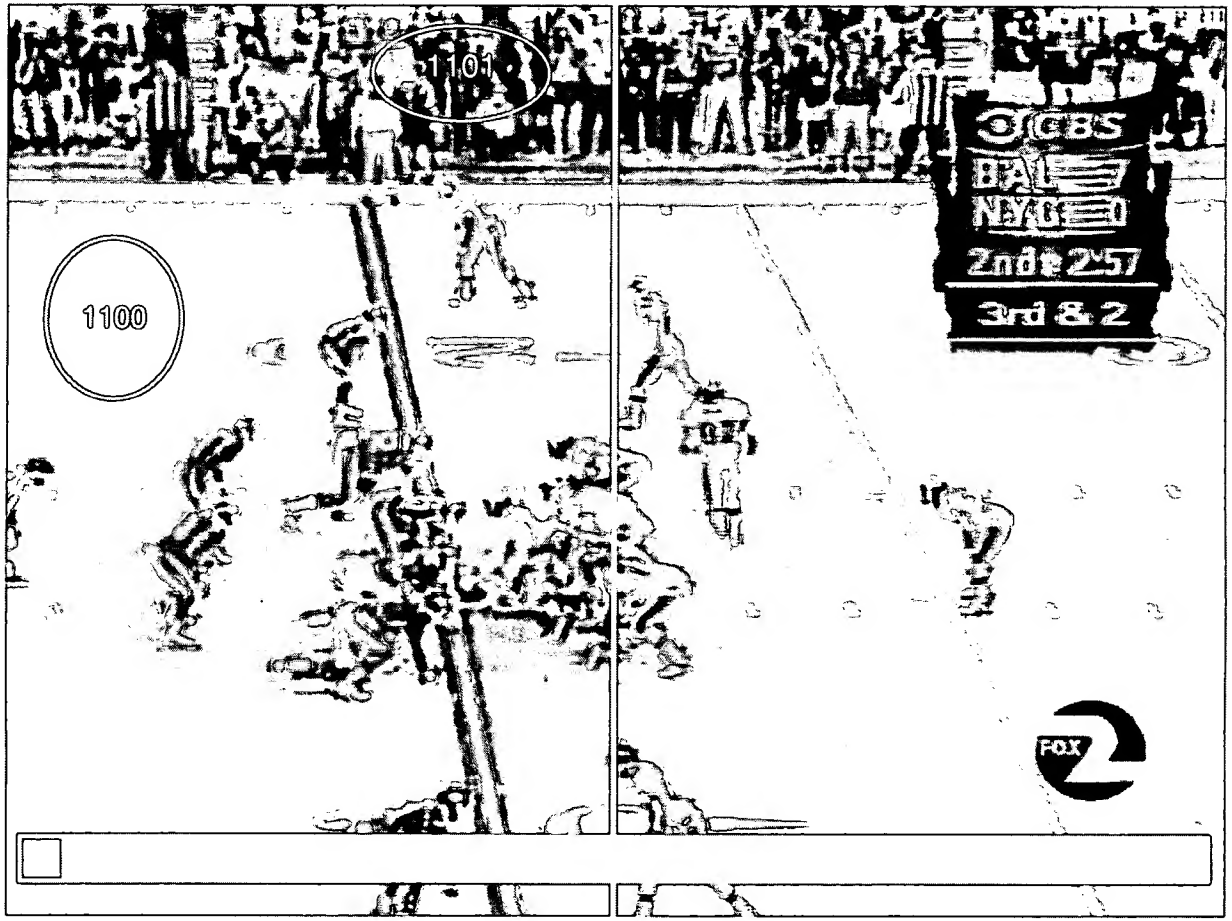

FIG. 11

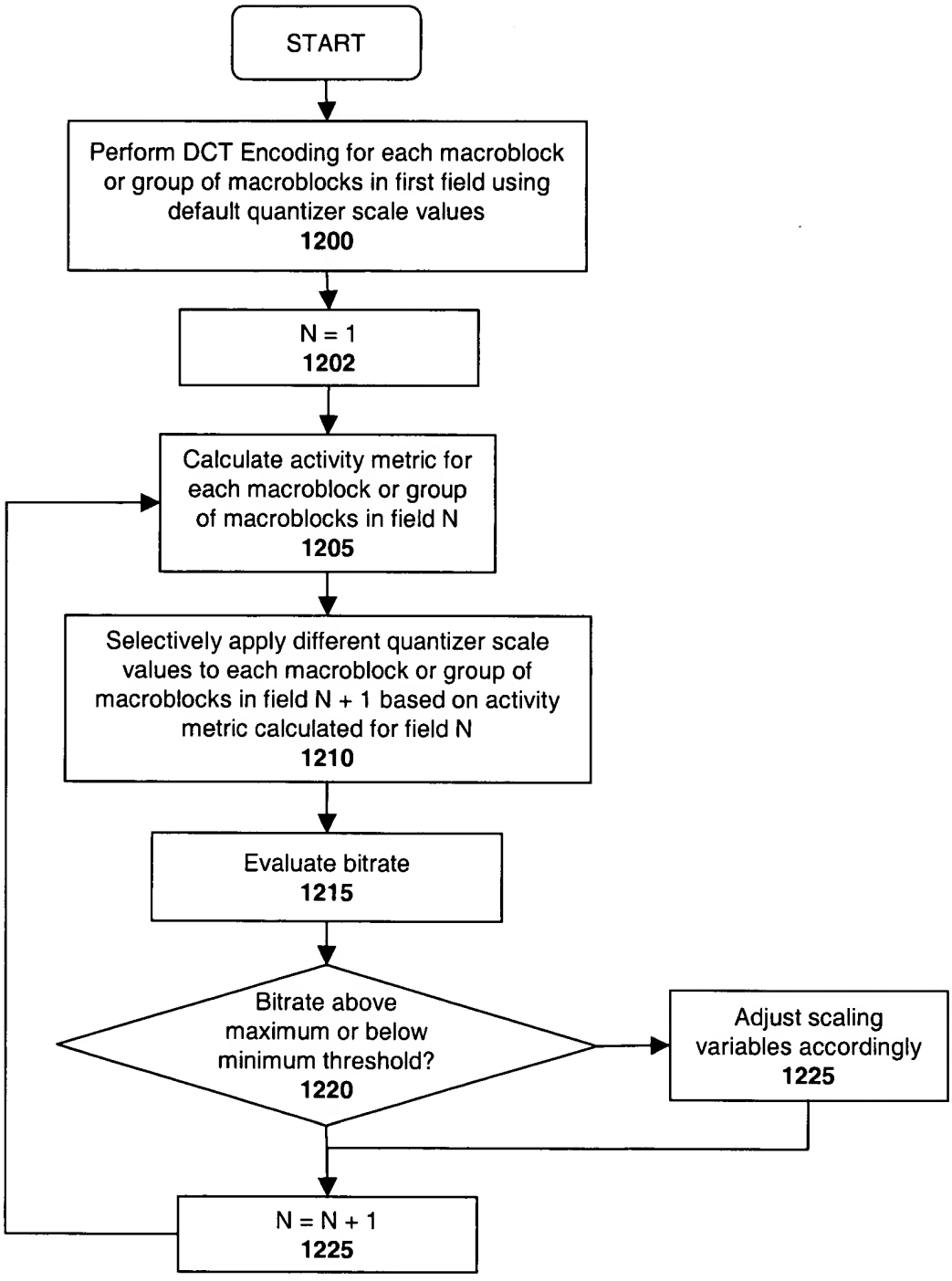
START
Perform DCT Encoding for each macroblock or group of macroblocks in first field using default quantizer scale values
1200
N = 1
1202
Calculate activity metric for each macroblock or group of macroblocks in field N
1205
Selectively apply different quantizer scale values to each macroblock or group of macroblocks in field N + 1 based on activity metric calculated for field N
1210
Evaluate bitrate
1215
Bitrate above maximum or below minimum threshold?
1220
Adjust scaling variables accordingly
1225
N = N + 1
1225

FIG. 12

T02050"BTT8+1860

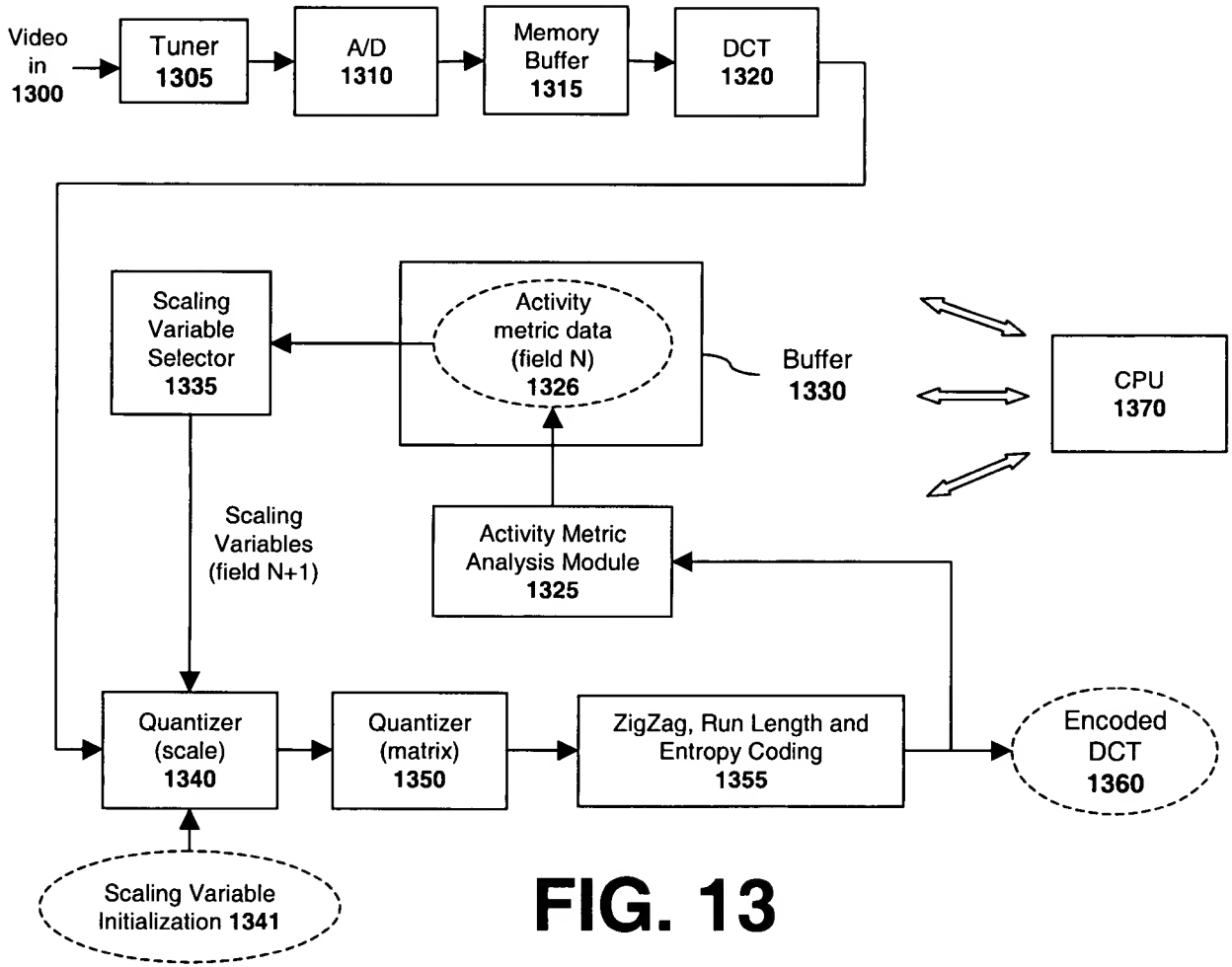

FIG. 13

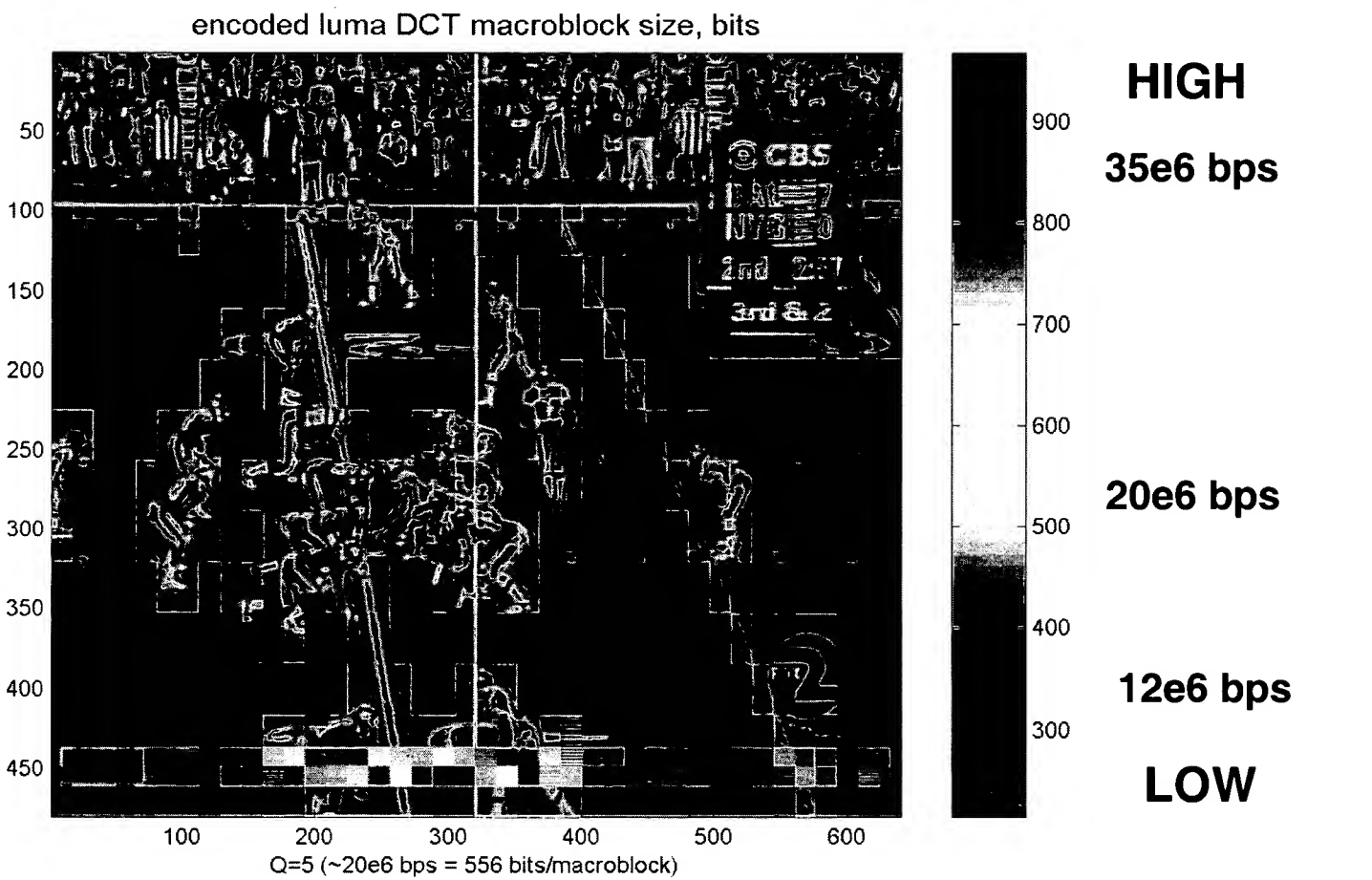
encoded luma DCT macroblock size, bits
50
100
150
200
250
300
350
400
450
100
200
300
400
500
600
Q=5 (~20e6 bps = 556 bits/macroblock)
900
800
700
600
500
400
300
HIGH
35e6 bps
20e6 bps
12e6 bps
LOW

FIG. 14

T02050 "8TT8h860

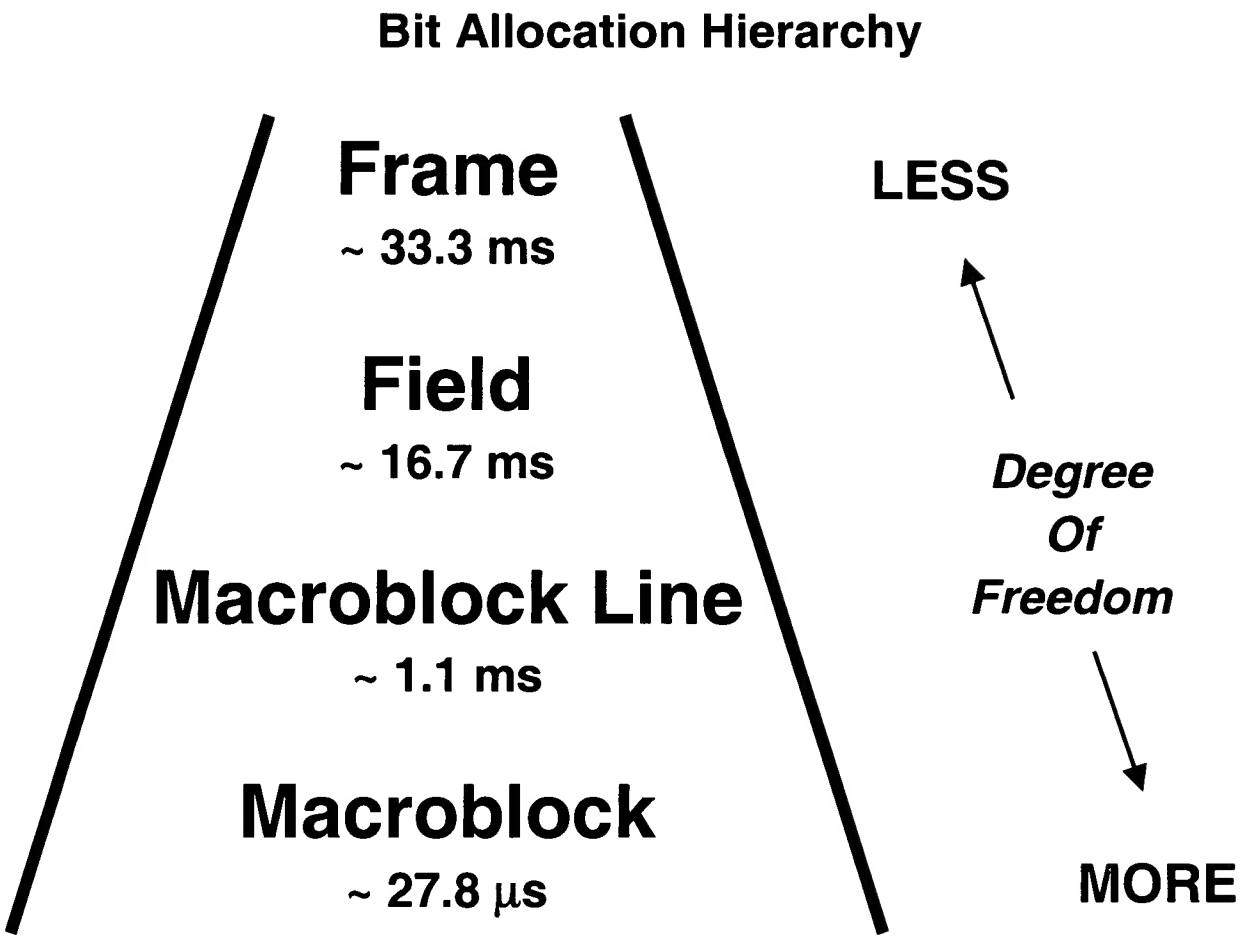

FIG. 15